TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042 Tel: 031-321-2664, Fax: 031-321-1664

1. Report No.: DREFCC2008-0210

2. Client / Applicant

· Name: Bluebird Inc.

· Address: 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea (06355)

3. Use of Report: Grant of Certification

4. Product Name / Model Name : Smart POS Payment Terminal / SP500

(FCC ID: SS4SP500)

5. Test Standard: ANSI C63.4:2014

FCC Part 15 Subpart B

(Communications Rcvr for use w/ licensed Tx and CBs(CXX))

6. Date of Test: Aug. 22, 2020

7. Testing Environment: Temperature (23) °C, Humidity (56) % R.H.

8. Test Result: Refer to the attached Test Result

Affirmation Reviewed by Name : ChanGeun Lee Name : JunHo Park

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

Aug. 24. 2020

DT&C Co., Ltd.

'This test report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.'

If this report is required to confirmation of authenticity, please contact to report@dtnc.net



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1. General Remarks

This report contains the result of tests performed by:

DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042 http://www.dtnc.net

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

DT&C Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	ion Agency		Remark
	Korea	KOLAS	393	ISO/IEC 17025
Accreditation	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23rd,Oct,2018	-
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
Site Filing	Canada	IC	5740A-3 5740A-4	Registered
Site Filling	Japan	VCCI	C-1427 R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815, G-20051	Registered
	Korea	КС	KR0034	Designation
Certification	Germany	TUV	CARAT 089112 0006 Rev.00	ISO/IEC 17025
	Russia	RMRS	17.10189.296	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

FCC ID: SS4SP500



3. General Information of EUT

Applicant	Bluebird Inc. 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea (06355)
Manufacturer	Bluebird Inc. 3F, 115, Irwon-ro, Gangnam-gu, Seoul, Republic of Korea (06355)
Factory	Bluebird Inc. (SSang-young IT Twin tower-B 7~8F), 531, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea
Product Name	Smart POS Payment Terminal
Model Name	SP500
Add Model Name	None
Add Model difference	None
FCC ID	SS4SP500
Rated Power	DC 7.26 V
Remarks	* Wireless Frequency WCDMA 850: Tx (826.4 ~ 846.6) MHz, Rx (871.4 ~ 891.6) MHz WCDMA 1900: Tx (1,852.4 ~ 1907.6) MHz, Rx (1,932.4 ~ 1987.6) MHz LTE Band 2: Tx (1,850.7 ~ 1,909.3) MHz, Rx (1,930.7 ~ 1,989.3) MHz LTE Band 4: Tx (1,710.7 ~ 1,754.3) MHz, Rx (2,110.7 ~ 2,154.3) MHz LTE Band 5: Tx (824.7 ~ 848.3) MHz, Rx (869.7 ~ 893.3) MHz LTE Band 12: Tx (699.7 ~ 715.3) MHz, Rx (729.7 ~ 745.3) MHz BT: (2,402 ~ 2,480) MHz WIFI 2.4 G: (2,412 ~ 2,462) MHz WIFI 5 G: (5,180 ~ 5,825) MHz

Related Submittal(s) / Grant(s)
Original submittal only



4. EUT Operations and Test Configurations

4.1 Principle of Configuration Selection

Emission:

The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use. For each testing mode different configurations were used, Refer to the individual tests.

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4.2 EUT Operation Mode

No.	Mode	Description			
1	WCDMA 850	The EUT was tested while operating in WCDMA 850 Rx mode.			
2	LTE 5	The EUT was tested while operating in LTE 5 band Rx mode.			
3 LTE 12 The EUT was tested while operating in LTE 12 band Rx mode.					
* WCDMA 850, LTE5, LTE12 bands that tune in the range of 30 MHz - 960 MHz are investigated. Only the worst					

^{*} WCDMA 850, LTE5, LTE12 bands that tune in the range of 30 MHz - 960 MHz are investigated. Only the worst case(LTE 5 band) emissions are reported.

4.3 Test Configuration Mode

No.	Mode	Description
1	WCDMA 850	Portable Equipment
2	LTE 5	Portable Equipment
3	LTE 12	Portable Equipment

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks				
ı	-	-	-	-				
	*Abbreviations: AE - Auxiliary/Associated Equipment, or							

4.5 EUT In/Output Port

SIM - Simulator

Name	Type*	Cable Max. >3m	Cable Shielded	Cable Back shell	Remarks
-	-	-	-	-	-
*Abbreviations:					
AC = AC Power Port		C = DC Power	Port	N/E = Non-Electric	cal
I/O = Signal Input or	Output Port G	ND = Ground			

I/O ΤP = Telecommunication Ports

4.6 Test Voltage and Frequency

Case	Voltage (DC/AC-V)	Frequency (Hz)	Phases	Remarks
1	DC 7.26	-	-	Battery



5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	N/A
Radiated Disturbance	ANSI C63.4 : 2014	С
C=Comply N/C=Not Comply	y N/T=Not Tested N/A=Not Applicable	
Note 1) These test are not required because EUT is	portable equipment.	

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The data in this test report are traceable to the national or international standards.

-Conducted Disturbance

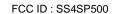
Frequency [MHz]	Phase	Result [dBµV]	Detector	Limit [dBµV]	Margin [dB]
-	-	-	-	-	-

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
39175.070	V	47.53	Cispr - Average	54.00	6.47

6. Test Environment

Test Items	Test date	Temp.	Humidity	Pressure
	(YYYY-MM-DD)	(℃)	(% R.H.)	(kPa)
Radiated Disturbance	2020-08-22	23	56	•





7. Test Results: Emission

7.1 Conducted Disturbance

ANSI C63.4		Mains terminal disturbance voltage Result							
Method: The AMN placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. The measuring port of the LISN for EUT was connected to spectrum analyzer. Using conducted emission test software, the emissions were scanned with peak detector mode. After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and CISPR Average detector. For (0.15 ~ 30) MHz frequency range, Quasi-Peak detector with 10 kHz RBW and 30 kHz VBW was used. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.									
Fully configured san		Frequency range on each si	de of line	Measurement I	Point				
er the following fre	equency range	150 kHz to 30 MHz		Mains					
EUT mo	Test configuration mode N/A								
(Refer to cla		EUT Operation mod	е	N/A					
(Neier to cla	14363 4)	Power interface mod	de	N/A					
		Limits – Class A							
Frequency (MHz)		Limit	dΒμV						
rrequericy (Wiriz)		Quasi-Peak		Average					
0.15 to 0.50		79		66					
0.50 to 30		73		60					
·		Limits – Class B							
Frequency (MHz)		Limit	dΒμV						
Frequency (WIFIZ)		Quasi-Peak Average							
0.15 to 0.50		66 to 56		56 to 46					
0.50 to 5		56		46					
5 to 30		60		50					

Measurement Instrument								
Description Model Manufacturer Identifier Cal. Date Cal. Due								
-	-	-	-	-	-			



Mains terminal disturbance voltage _Measurement data								
Test configuration mode	Test configuration mode N/A EUT Operation mode N/A							
Test voltage (V)	N/A	Test Frequency (Hz)	N/A					

Calculation

-	**********
	N : Neutral phase, L1 : Live phase
	C.FACTOR(dB): Pulse Limiter(dB) + Cable loss(dB) + Insertion loss of LISN(dB)
	Result(dBμV) : Reading Value(dBμV) + C.FACTOR(dB)
	Margin(dB) : Limit(dBμV) - Result(dBμV)

7.2 Radiated Disturbance

ANSI C63.4	Radiated disturbance 30 MHz – XX GHz Res							
the receive antenna measurements were height from 1 to 4 m. where applicable. Fo	Hz and 3 located a then per All frequor final me ndwidth) = 1 MHz	meter above 1GHz. It various heights in heights in heights in heights in heights were investigeasurement below 1 I was used. For final r	The EUT was norizontal and le EUT 360° ated in both GHz frequencesuremer	as rotated d vertical and adju horizonta ncy range nt above 1	d 360° about its azimul polarities. Final asting the receive anter al and vertical antenna e, Quasi-Peak detector I GHz frequency range	th with nna polarity, with	Comply	
EUT mode		Test configu	uration mod	le	2	2		
(Refer to clauses 4		EUT Opera	ation mode		2	2		
(Neier to clauses 4)		Power inte	rface mode	•	1			
		Radiated Disturb	ance belov	v 1 000 N	1Hz			
Erogueney renge			Qu	asi-peak	limit dBμV/m			
Frequency range		Cla	ss A		Clas	ss B		
(MHz)		3 m distance	10 m dis	stance	3 m dis	stance		
30 to 88		49.1	39.	1	4	0		
88 to 216		53.5	43.	5	43	3.5		
216 to 960		56.4	46.	4	4	6		
960 to 1 000		59.5	49.	5	5	54		
According to 15.109(g), as a comply with the standards(C				shown a	bove, digital devices m	nay be sh	own to	
Frequency range			Qu	asi-peak	limit dBμV/m			
(MHz)		Class A (10	m distance)	Class B (10	m distar	ice)	
30 to 230		4	10		3	0		
230 to 1 000		4	17		3	7		
Radiated	Disturb	ance for above 1 0	00 MHz at a	measur	ement distance of 3	m		
Frequency range		Peak lim	it dΒμV/m		Average lin	nit dBµV	/m	
(GHz)		Class A	Class	s B	Class A	CI	ass B	
1 to 40		80	74		60		54	
The test from	equency	range of Radiated	Disturbance	e measur	ements are listed be	low.		
Highest frequency or on which the dev				Upp	er frequency of mea (MHz)	suremen	t range	
	Below 1				1 000			
	108 – 5			2 000				
	500 – 1 (Above 1			5 000 5 th harmonic of the highest frequency or 40 GHz, whichever is lower				



	Measurement Instrument										
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due						
MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0177	TSJ	N/A	N/A	N/A						
EMI TEST RECEIVER	ESU40	ROHDE&SCHWARZ	100525	2019.12.20	2020.12.20						
TRILOG BROAD BAND ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22						
6DB ATTENUATOR	2708A	HP	18403	2018.10.22	2020.10.22						
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2020.02.13	2021.02.13						
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2020.03.26	2021.03.26						
PRE AMPLIFIER	8449B	H.P	3008A00887	2019.08.26	2020.08.26						
HORN ANTENNA	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13						
WITH PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2019.12.31	2020.12.31						
HORN ANTENNA	3116C	ETS-LINDGREN	00213177	2019.12.12	2021.12.12						
WITH PREAMPLIFIER	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2019.11.04	2020.11.04						
(NOTE : THE MEASURE	MENT ANTENNAS WERI	E CALIBRATED IN ACCO	RDANCE TO THE F	REQUIREMENTS C	OF C63.5-2017.)						



Radiated disturbance at (30 ~ 1000) MHz _Measurement data							
Test configuration mode 2 EUT Operation mode 2							
Test voltage (V) Battery Test Frequency (Hz) -							

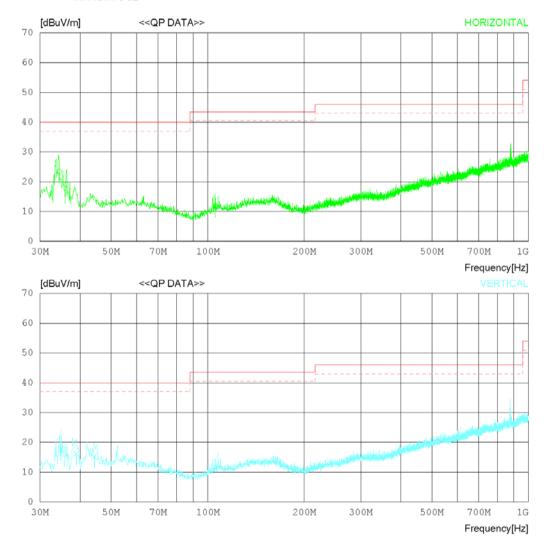
RADIATED EMISSION

Date 2020-08-22

Order No. DTNC2001-00359
Power Supply Battery
Temp/Humi 23 'C 56 %.R.H.
Test Condition LTE 5 Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB





Date 2020-08-22

FCC ID: SS4SP500

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00359 Battery 23 'C 56 %.R.H. LTE 5 Mode

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
1 2 3	34.365 36.305 105.538	28.90	15.74 16.03 15.91	0.64 0.66 1.50	26.54 26.55 26.83	19.04	40.00 40.00 43.50	16.66 20.96 31.82	300 301 306	357 351 278
	Vertical	L								
4 5	34.850 38.973 44.308	25.30	15.79 16.79 17.63	0.64 0.67	26.54 26.56	16.20	40.00	22.31 23.80 24.86	297 102 305	320 123



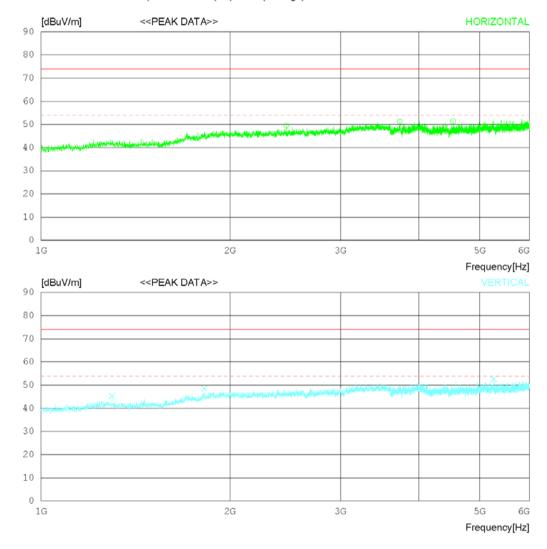
Radiated disturbance at (1 ~ 6) GHz _ Peak Measurement data							
Test configuration mode 2 EUT Operation mode 2							
Test voltage (V) Battery Test Frequency (Hz) -							

RADIATED EMISSION

Date 2020-08-22

Order No. DTNC2001-00359
Power Supply Battery
Temp/Humi 23 'C 56 %.R.H.
Test Condition LTE 5 Mode

Memo





Date 2020-08-22

FCC ID: SS4SP500

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00359 Battery 23 'C 56 %.R.H. LTE 5 Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	2460.000 3726.875 4532.500	43.003	33.40			49.56 51.26 51.36	74.0 74.0 74.0	24.44 22.74 22.64	104 205 201	197 358 355
	Vertical									
5	1297.500 1820.000 5264.375	45.60	30.52	5.13 7.02 10.37	35.33 34.59 34.90	45.41 48.55 52.67	74.0 74.0 74.0	28.59 25.45 21.33	205 102 103	300 1 1



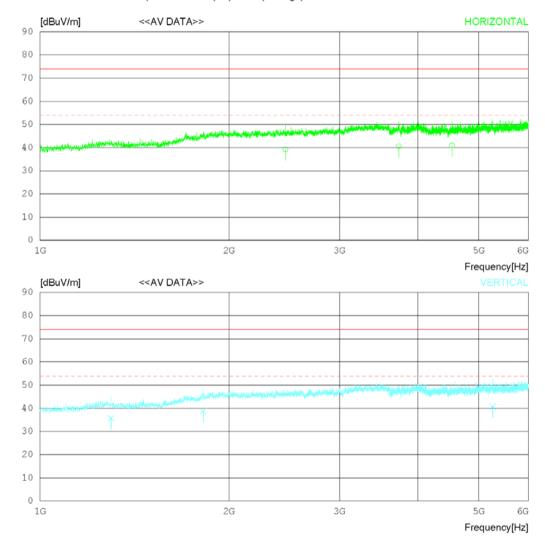
Radiated disturbance at (1 ~ 6) GHz _ Average Measurement data							
Test configuration mode 2 EUT Operation mode 2							
Test voltage (V)	Battery	Test Frequency (Hz)	-				

RADIATED EMISSION

Date 2020-08-22

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Temp/Humi 23 'C 56 %.R.H.
Test Condition LTE 5 Mode

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No	FREQ	READING CAV	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	2460.120 3726.885 4532.433	32.30	32.20 33.40 33.90	7.17 8.78 9.60	34.61 33.92 34.24	40.56	54.00 54.00 54.00	14.74 13.44 13.04	103 201 205	203 352 344
	Vertical									
5	1297.570 1820.140 5264.325	35.80	29.30 30.52 34.40	5.13 7.02 10.37	35.33 34.59 34.90	38.75	54.00 54.00 54.00	18.30 15.25 13.23	207 104 105	308 0 0



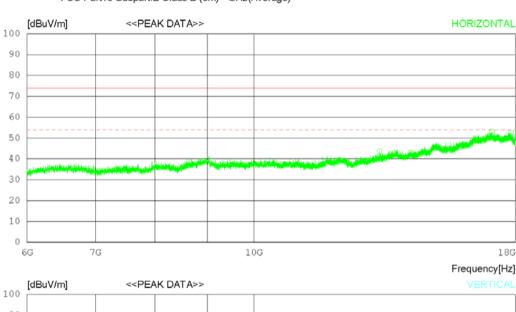
Radiated disturbance at (6 ~ 18) GHz _ Peak Measurement data							
Test configuration mode	2	EUT Operation mode	2				
Test voltage (V)	Battery	Test Frequency (Hz)	-				

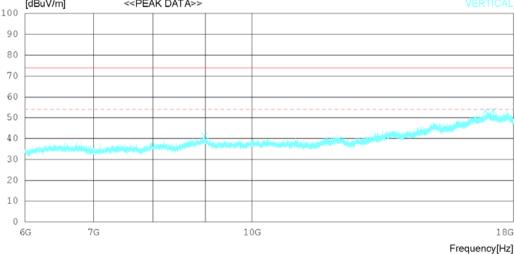
RADIATED EMISSION

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Power Supply Battery
Temp/Humi 23 'C 56 %.R.H.
Test Condition LTE 5 Mode

Memo







Date 2020-08-22

FCC ID: SS4SP500

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00359 Battery 23 'C 56 %.R.H. LTE 5 Mode

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No	. FREQ I	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]		[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	13260.000 17073.750 17816.250	28.80 3	37.61	23.23	36.49	53.15	74.0 74.0 74.0	30.31 20.85 21.4	102 103 207	230 0 179
	Vertical									
5	8982.750 16905.750 17210.250	29.003	37.44	23.01	36.34	53.11	74.0 74.0 74.0	32.72 20.89 20.53	202 196 107	33 0 349



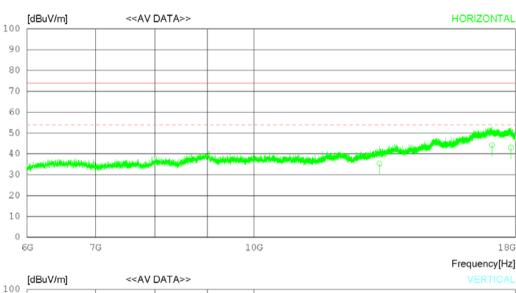
Radiated disturbance at (6 ~ 18) GHz _ Average Measurement data							
Test configuration mode	2	EUT Operation mode	2				
Test voltage (V)	Battery	Test Frequency (Hz)	-				

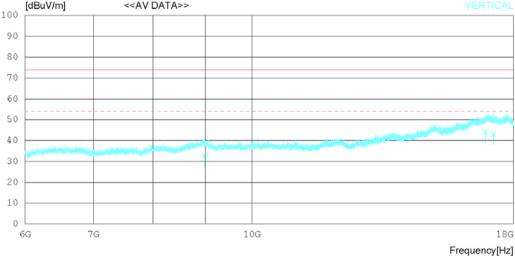
RADIATED EMISSION

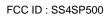
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Order No. DTNC2001-00359
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Temp/Humi 23 'C 56 %.R.H.
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No	. FREQ	READING CAV	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]		FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	13260.08 17073.72 17816.21	0 19.80	37.61	23.23	36.49	44.15	54.00 54.00 54.00	18.71 9.85 11.00	101 102 206	237 0 188
	Vertical									
5	8982.770 16905.68 17210.21	0 20.10	37.44	23.01		44.21	54.00 54.00 54.00	21.12 9.79 10.83	202 193 105	25 0 355





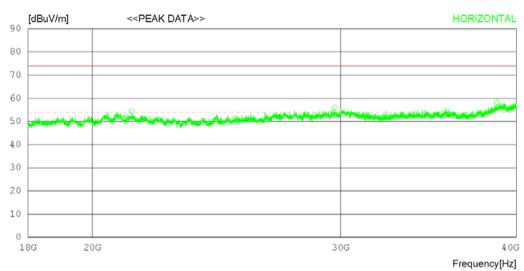
Radiated disturbance at (18 ~ 40) GHz _ Peak Measurement data							
Test configuration mode	EUT Operation mode	2					
Test voltage (V)	Battery	Test Frequency (Hz)	-				

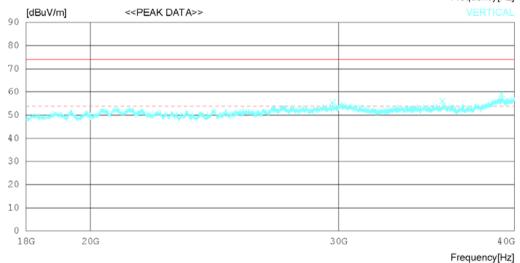
Date 2020-08-22

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Test Condition LTE 5 Mode

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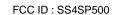
Date 2020-08-22

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00359 Battery 23 'C 56 %.R.H. LTE 5 Mode

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No.	FREQ F	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR	(dB)	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizonta	al								
2	21330.250 29723.250 38737.750	38.80	17.52	21.86	52.29	55.89	74.0 74.0 74.0	19.61 18.11 15.75	107 216 206	236 100 356
	Vertical									
5	29706.750 35567.000 39175.000	38.90	17.00	24.06	53.79	55.47 56.17 59.13	74.0 74.0 74.0	18.53 17.83 14.87	198 106 101	1 1 61





Radiated disturbance at (18 ~ 40) GHz _ Average Measurement data								
Test configuration mode	2	EUT Operation mode	2					
Test voltage (V)	Battery	Test Frequency (Hz)	-					

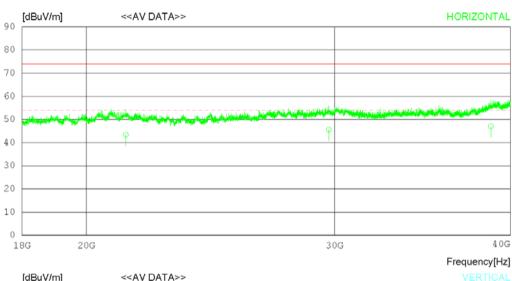
Report No.: DREFCC2008-0210

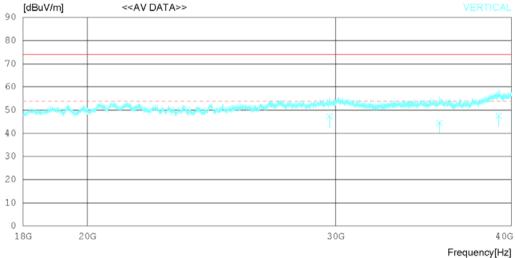
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 Power Supply
 Battery

 Temp/Humi
 23 'C 56 %.R.H.

 Test Condition
 LTE 5 Mode

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LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak) FCC Part15 Subpart B Class B (3m) - GHz(Average)

No	FREQ	READING CAV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	21330.22 29723.17 38737.72	0 28.50	47.52		52.29	45.59	54.00 54.00 54.00	10.61 8.41 6.95	108 213 202	244 105 342
	Vertical	L								
5	29706.72 35567.13 39175.07	0 27.20	47.51 47.00 47.85	24.06	52.30 53.79 52.24	44.47	54.00 54.00 54.00	6.73 9.53 6.47	196 101 105	0 0 78

Calculation

 $Result(dB\mu V/m): 30 \sim 1G: Reading\ Value(dB\mu V) + Cable\ loss(dB) - Pre\ amplifier\ gain(dB) + Ant.\ Factor(dB)$

1 ~ 6 G : Ant. Factor = Ant. Factor - Pre amplifier gain

Margin(dB) : Limit(dBμV/m) - Result(dBμV/m)



8. Revision History

Date	Description	Revised By	Reviewed By
Aug. 24. 2020	Initial report	ChanGeun Lee	JunHo Park

⁻End of test report-